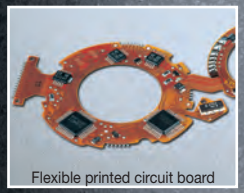
Tokina LENS CATALOG

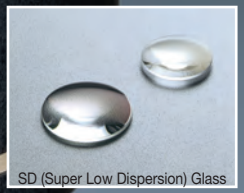
Digital Eyes

Tokina
DIGITAL SERIES

Floating Element Assembly

Aluminum Alloy Die-Cast Model


Flexible printed circuit board


SD (Super Low Dispersion) Glass

VISIONARY TECHNOLOGY MAKES A DIFFERENCE YOU CAN SEE.

Tokina's proprietary AT-X technology has been evolving toward optical perfection for more than 30 years.

Since our mission began in 1981 we have made continuous advances. Each new model is a further refinement in a continuing legacy of excellence in design and materials. The current AT-X PRO series continues this evolution of excellence by using the most state-of-the-art technology anywhere.

More Quality Than Meets The Eye.

The Tokina difference comes from special material selection and assembly technology that employs micron-unit quality control. This ensures optimum consistency while maintaining the highest quality for every lens. Worldwide, both professionals and knowledgeable photography enthusiasts rely on Tokina lenses.

AT-X Technology

AT-X comes from our original concept of "Advanced Technology Extra." This vision encompasses a special group of lenses that are manufactured without compromise, using the most advanced design and fabrication technologies available. The use of unique and unprecedented optical systems independently pioneered by Tokina, has made advanced features, high performance, lightweight, and compact designs a reality. Of course, we have also given full attention to ergonomics and handling. To any user, AT-X means excellent performance through superior technology.

Mechanisms

1. All metallic moving parts are coated with a special lubricant to improve durability.
2. Tokina's independently developed technology maintains the high precision of mechanical fittings, accurately measured in microns.
3. Micron tolerances also give smooth operation and durability to operating rollers and internal focus cams.
4. Brass is used in the lens mount to maintain high precision. Other mechanisms are plated with hard chrome for optimum durability.

Exterior Finish

1. PRO models have a hardened Alumite (Armalite) finish to increase durability and give a top-quality feel and finish.
2. Ergonomic designs emphasize control, grip and ease of operation with textured rubber used on zoom and focus barrels. These are original Tokina materials, designed to give many years of faithful service without deterioration.

Operation

1. Use of our special alloy Duralumin for metal parts provides excellent durability, stabilizes torque and provides better handling. It also maintains smoother operation under all conditions.
2. Our special lubricant is used on moving parts, formulated to perform even under extremes of temperature.

Lens Coatings

Resistance to flare and ghosting, plus faithful color reproduction are all achieved by a unique coating technique – yet another reason for Tokina's reputation for incredibly sharp and clean images.

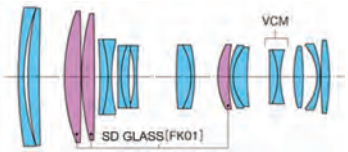
MICURAS
MICURAS

70-200mm F/4

TO FIT NIKON-D

AT-X 70-200MM F/4 FX VCM-S

- 14 Elements in 19 Groups
- Minimum Focus Distance: 1.0m
- Angle of view: 34.45°~12.42°
- Filter size: ø67mm



Lens Hood BH-672
The large BH-672 hood with "click-lock" to stay in place.

Tripod Collar Ring TM-705

COMPACT HIGH-PERFORMANCE TELEPHOTO ZOOM

Kenko Tokina Co. Ltd, is pleased to announce the new Tokina AT-X 70-200mm F/4 PRO FX VCM-S lens featuring a new Vibration Compensation Module and ring-shaped ultrasonic style auto-focus motor. This lens is designed for digital cameras with full sized sensors as well as APS-C (DX) sensors.

The Tokina AT-X 70-200mm lens is the first lens with Tokina's new proprietary VCM (Vibration Compensation Module). This technology allows for up to 3 stops of vibration compensation* to reduce the affect of camera shake in situations were a tripod or monopod cannot be used.

Additionally the new 70-200 Lens features a complete ring-shaped ultrasonic motor for faster and quieter auto-focus. This new motor allows for the minute adjustments between AF and manual focus modes dramatically increasing operability. The "S" denotes the new ultrasonic motor.

The optical design of this lens has 3 SD (FK01) Super-low Dispersion glass elements to correct for chromatic aberration and maintain heightened optical quality throughout the zoom range.

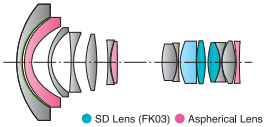
Tokina's announcement of the AT-X 70-200 lens expands the lens lineup to include a compact high-performance telephoto zoom lens that has great portability in a professional caliber telephoto lens.

AF16-28mm f/2.8

TO FIT CANON • NIKON-D

AT-X 16-28 PRO FX

- 15 Elements in 13 Groups
- Minimum Focus Distance: 0.28m
- Angle of view: 107.11°-76.87°
- Aperture Blades: 9



FULL FRAME WIDE ZOOM

This new Tokina lens is the first in a new generation of full frame (FX) lenses designed for professional digital SLR cameras. The 16-28 zoom range gives the professional photographer a super-wide angle of view to get close to subject for dramatic effect or to take in entire scenes.

NEW Silent DC Motor with GMR Senor

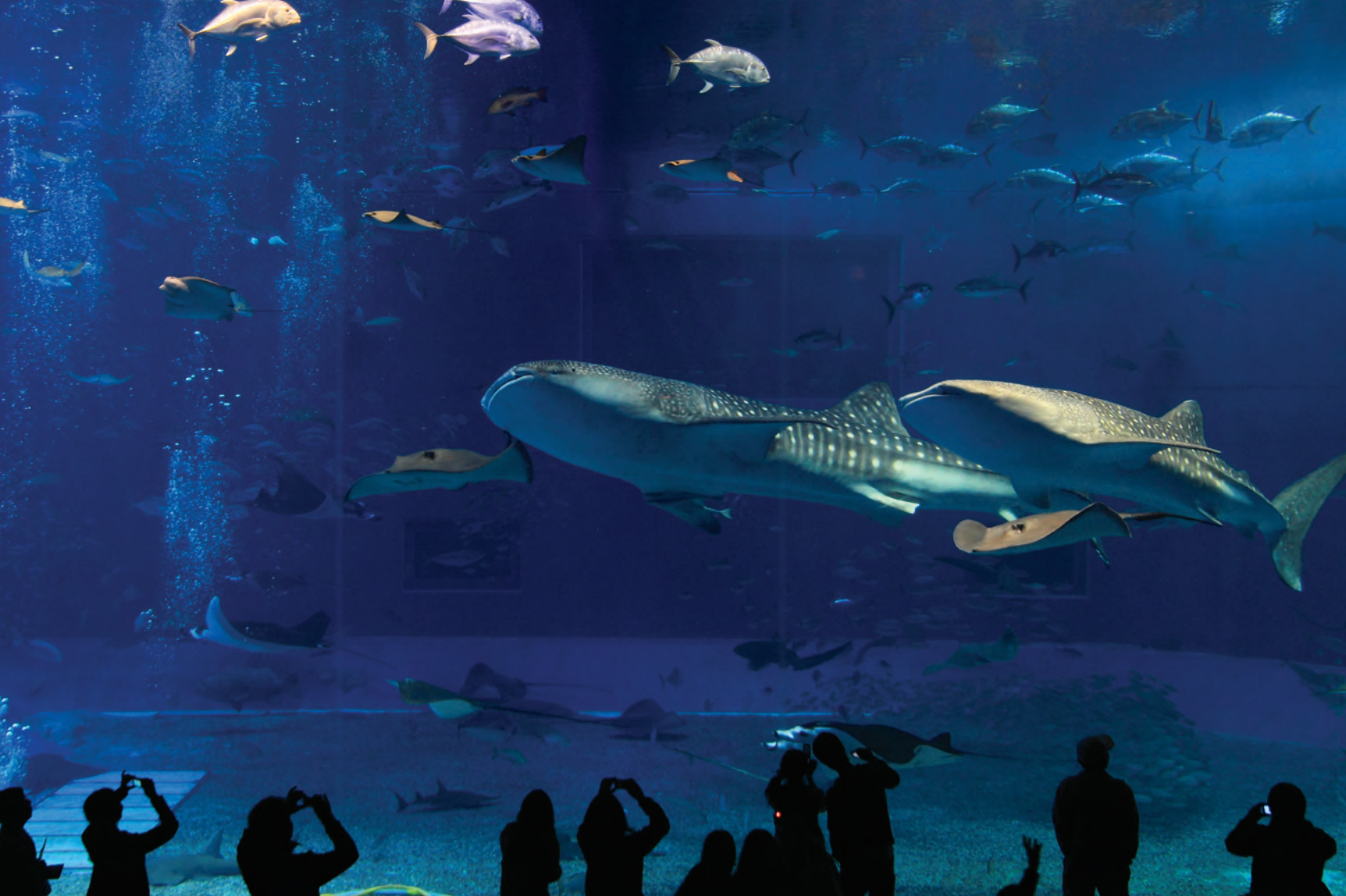
The 16-28 f/2.8 uses a newly developed silent DC motor that allows the lens to focus faster and more quietly than previous generations. The DC motor coupled with a new GMR sensor works together to increase AF speed.

Aspherical and Super-low Dispersion Glass Elements

A new, 56mm in diameter, large sizes aspherical glass element is incorporated into the front lens group, while there are 2 more aspherical elements in the rear group. 3 SD super-low dispersion glass elements are also incorporated through-out the optical design to reduce chromatic aberration, give maximum resolution, more even brightness and distortion correction.

One-Touch Focus Clutch

Tokina's exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the camera to focus manually. There is no need to change the AF/MF switch on Nikon camera bodies and there is no second AF/MF switch on the lens for Canon, everything is accomplished by the focus ring.

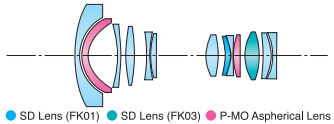


AF17-35mm f/4

TO FIT CANON • NIKON-D

AT-X 17-35 PRO FX

- 13 Elements in 12 Groups
- Minimum Focus Distance: 0.28m
- Angle of view: 103.96°-64.74°
- Filter size: ø82mm



● SD Lens (FK01) ● SD Lens (FK03) ● P-MO Aspherical Lens

Aspherical SD Super Low Dispersion IF Internal Focus One Touch FC Focus Clutch

Lens Hood BH-821
The large BH-821 wide-angle hood with "click-lock" to stay in place.

SHOOT SPECTACULAR

Designed for Full-Frame cameras, the Tokina AT-X 17-35 PRO FX gives photographers a new wide-angle option. With a focal length of 17mm at the wide-side the lens yields a spectacular 103.9 degree field of view which is great for shooting in tight situations or for taking in wide expanses of space.

This compact wide-angle zoom has a bright constant F/4 aperture making viewing and auto focus possible in lower light situations but still maintaining a reasonable size and weight.

Two Super-Low Dispersion glass elements and one aspheric lenses allow the proprietary optical design to achieve excellent contrast and sharpness.

Tokina's exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the lens mount for manual focusing.

Additionally the mechanics have been designed for better seals around moving parts making the lens more water-resistant* than lenses of the past. The lens is also designed to stand up to the rigors of daily use by photographers in a wide variety of shooting conditions and environments.

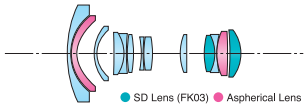
◆ The AT-X 17-35 is only water-resistant, not water-proof and is not designed to be submerged or used unprotected in heavy rain.

AF11-16mm f/2.8

TO FIT CANON • NIKON-D • SONY
APS-C Sized Sensor Model Only

AT-X 116 PRO DX II

- 13 Elements in 11 Groups
- Minimum Focus Distance: 0.3m
- Angle of view: 104°~82°
- Filter size: ø77mm



Lens Hood BH-77B
The large BH-77B wide-angle hood with "click-lock" to stay in place.

Ultra-Wide, Ultra-Speed

The New Tokina AT-X 116 PRO DX-II is an update to the widely popular and award winning AT-X 116 PRO DX, 11-16 F/2.8 lens.

The main update to this lens is in the Nikon mount, the AT-X 116 PRO DX-II has an internal silent focusing motor to allow the lens to AF on Nikon bodies that do not have an AF drive gear and motor.

There have also been some adjustments made to the coating for slightly improved optical performance.

This compact ultra wide-angle zoom has a bright constant F/2.8 aperture make viewing and auto focus possible in lower light situations but still maintaining a reasonable size and weight.

Two Super-Low Dispersion glass elements and two aspheric glass allow the proprietary optical design to achieve excellent contrast and sharpness as well as controlling chromatic aberration.

Tokina's exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the lens mount for manual focusing. The lens is also designed to stand up to the rigors of daily use by photographers in a wide variety of shooting conditions and environments.

Other than the optical coating change there are no changes to the Canon mount. The AT-X 116 PRO DX-II for Canon uses the same AF motor and AF drive system as the the previous model.

◆ The lens is designed for Digital cameras with APS-C sized CMOS and CCD sensors, not designed for cameras with Full Frame sensors.

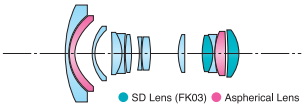
◆ Be sure to note that the Tokina AT-X 116 PRO DX II lens itself is not waterproof or water resistant.

12-28mm F/4

TO FIT CANON • NIKON-D
APS-C Sized Sensor Model Only

AT-X 12-28 PRO DX

- 12 Elements in 14 Groups
- Minimum Focus Distance: 0.25m
- Angle of view: 99.37°~55.73°
- Filter size: ø77mm



Lens Hood BH-77B
The large BH-77B wide-angle hood with "click-lock" to stay in place.

SUPER WIDE-ANGLE TO SEMI-STANDARD ZOOM

Wide Zoom Range

The new Tokina AT-X 12-28mm F/4 lens has a super-wide to standard zoom range while maintaining a constant fast f/4.0 aperture. This makes it a very versatile lens for different photo applications such as scenery, street scenes photography and event coverage. The lens is designed for DSLR cameras with APS-C (DX) sized sensors.

New Optical Design

A new optical design using aspherical elements and super-low dispersion glass matches even the highest mega-pixel DX sensors cameras available today. One aspherical lens element is positioned in the front group. This together with another precision molded glass aspherical lens element placed in the rear group ideally focuses marginal light rays and maintains sharpness at the edges while also correcting distortion. The use of two different SD (Super-low Dispersion) glass elements,type FK01 and FK03, correct schromatic aberration. The combination of all these specialized elements in the optical design yield excellent sharpness and color.

New Auto Focus Mechanism

The new AF "GMR magnetic precision" sensor is capable offset auto-focus. Tokina placed the new sensor closer to the drive unit in the lens for faster communication between the controller and AF motor. This combined with the motor's high-precision focus control yields faster, more accurate auto-focus.

Additionally, a brand new "SD-M" (Silent Drive-Module) has greatly lowered the sounds emitted by the auto focusdrive system allowing for much quieter AF. Both Canon and Nikon mounts have a built-in AF motor to make them auto-focus compatible with all current camera bodies.

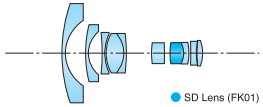
◆ The lens is designed for Digital cameras with APS-C sized CMOS and CCD sensors, not designed for cameras with Full Frame sensors.

AF10-17mm f/3.5-4.5

TO FIT CANON • NIKON-D
APS-C Sized Sensor Model Only

AT-X 107 DX Fisheye

- 10 Elements in 8 Groups
- Minimum Focus Distance: 0.14m
- Angle of view:180° ~ 100°
- Lens Hood: Built-in
  (APS-C Sized Sensor Model Only)



SD Super Low Dispersion IF Internal Focus WR Water Resistant Coating

ROUND YOUR WORLD

The Tokina AT-X 107 DX is a fish-eye lens that gives the digital photographer an approximate 180° field of view with dramatic curvature of field or “fish-eye” effect. With this lens an entire view or vista can be captured, wider than the human eye can see. The AT-X 107 opens an entirely new dimension of photography. Unlike other fish-lenses, the AT-X 107 DX gives a full corner-to-corner image.

The front element of the AT-X 107 DX has a newly formulated WR or “Water Repellent" optical coating on the glass. This new coating makes marks such as spots left by water or finger-prints much easier to clean than standard multi-coating.**

The rear optical group of the lens contains 1 SD (Super-Low Dispersion) glass element to reduce the number of elements (pieces of glass) in the optical design in order to make the lens more compact, light-weight and faster focusing.

◆ The lens is designed for Digital cameras with APS-C sized CMOS and CCD sensors, not designed for cameras with Full Frame sensors.

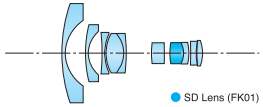
◆ Be sure to note that the Tokina AT-X 107 DX lens itself is not waterproof or water resistant.

AF10-17mm f/3.5-4.5

TO FIT CANON • NIKON-D
APS-C Sized Sensor Model Only

AT-X 107 DX NH Fisheye

- 10 Elements in 8 Groups
- Minimum Focus Distance: 0.14m
- Angle of view:180˚ ~ 100˚
- Lens Hood: Built-in
  (APS-C Sized Sensor Model Only)



SD Super Low Dispersion
IF Internal Focus
WR Optical Coating

ROUND YOUR WORLD

The Tokina AT-X 107 NH is a fish-eye lens that gives the digital photographer an approximate 180° field of view with dramatic curvature of field or “fish-eye” effect. The AT-X 107 NH only differs from the AT-X 107 DX in that the built-in hood as been removed allowing for a wider image area and more coverage on full-frame sensor (FX) cameras.*

The front element of the AT-X 107 DX has a newly formulated WR or “Water Repellent" optical coating on the glass. This new coating makes marks such as spots left by water or finger-prints much easier to clean than standard multi-coating. With the built-in hood removed the lens also fits in a wider variety of underwater housings.

The rear optical group of the lens contains 1 SD (Super-Low Dispersion) glass element to reduce the number of elements (pieces of glass) in the optical design in order to make the lens more compact, light-weight and faster focusing.

*Full corner to corner image can be achieved on an FX camera between approx. 14.5-17mm depending on the camera model, at 10-14mm there is a semi-circular view.

◆ The lens is designed for Digital cameras with APS-C sized CMOS and CCD sensors, not designed for cameras with Full Frame sensors.

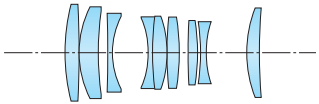
◆ Be sure to note that the Tokina AT-X 107 DX lens itself is not waterproof or water resistant.

AF100mm f/2.8

TO FIT CANON • NIKON-D

AT-X M100 AF PRO D

- 9 Elements in 8 Groups
- Minimum Focus Distance: 0.3m
- Angle of view: 24.30°
- Filter size: ø55mm



One Touch FC Focus Clutch

Lens Hood BH-551
The large BH-551 Macro hood with "click-lock" to stay in place.

100mm F2.8 MACRO

The AT-X 100 PRO D is a new macro lens capable of life-sized (1:1) reproduction at 11.8 in. (30 cm). The lens' multi-coating have been re-engineered to match the highly reflective silicon based CCD and CMOS sensors in today's digital SLR cameras. This lens gives the best of both worlds because optics still give full coverage and excellent sharpness on 35mm film. A macro lens that can handle both the digital and film worlds with ease.

The AT-X 100 PRO D also has a very convenient focus limiter switch that can lock the focus out of the closes focus making it focus faster when used as a moderate telephoto lens that is excellent portraits as well.

Other features of the AT-X 100 PRO D are:

Tokina One Touch Focus Clutch Mechanism for fast easy switching between manual and Auto focus.

55mm non-rotating filter thread for use with macro ring flashes and special effects filters.

The AT-X 100 PRO D also comes with a deep bayonet mounted lens hood.

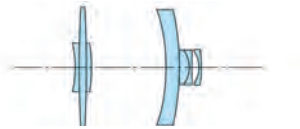
◆ Will not AF when used on Nikon D5100, D3200 and other silent wave bodies.

Reflex 300mm f/6.3

TO FIT Micro 4/3rds Model Only

REFLEX 300mm F6.3 MF MACRO

- 7 Elements in 3 Groups
- Minimum Focus Distance: 0.8m
- Angle of view: 4.8°
- Filter size: ø55mm



MICRO FOUR THIRDS

Lens Hood BH-552

The large BH-552 Macro hood with "click-lock" to stay in place.

Compact Telephoto Mirror Lens

The New Tokina Reflex 300mm f/6.3 compact telephoto mirror lens is designed specifically for mirrorless compact cameras using the micro 4/3rds mount.

The 300mm focal length of the lens gives effective 600mm (in 35mm terms) when placed on a mirrorless camera body making it a super-telephoto lens. This allows distant subject to be brought in much closer. But despite this powerful focal length the lens is incredibly compact to match the size of the compact cameras it was intended to be used with.

The lens has a fixed f/6.3 aperture. The Tokina Reflex 300mm has all metal lens barrels and very high quality glass optics to yield the best optical performance from a new of this design.

This lens has a wide grip area on the manual focusing ring and smooth movement to assist in focusing. This is a manual focus system only.

One-Touch Focus Clutch Mechanism

The newly improved one-touch focus clutch allows the focus to be moved quickly and easily from the AF position back into the MF position. In Nikon and Canon mounts, the lens can be set for manual focusing without an AF/MF switch or setting the body to the AF position.

Auto Focus

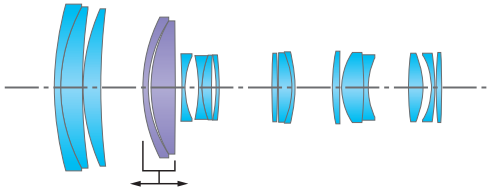
Manual Focus

Internal Focus System

The two main methods of lens focusing are either the complete straight forward movement of elements (used mainly with single focal length lenses), or the rotation of the entire front lens barrel group (used mainly with zoom lenses). The internal focusing system used by Tokina moves each lens group, but does not change the overall length of the lens - this is especially useful with telephoto designs.

The internal focusing system has a number of advantages, including:

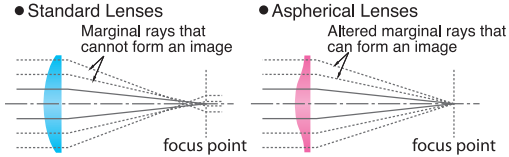
1. Faster focusing
2. Improved handling due to fewer movements near the center of gravity
3. More compact lens designs
4. Superior use of filters as the front filter thread does not rotate



TECHNOLOGY - MECHANICAL

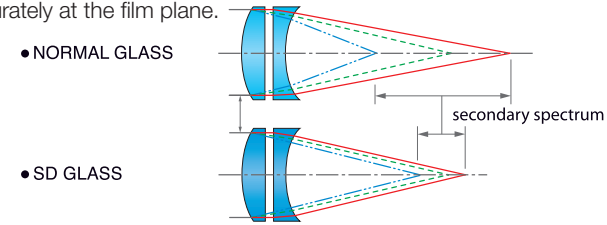
Aspherical Optics

Standard lenses are made from a combination of spherical lens elements. However, there can be problems with such lenses when light entering at the edges of the lens may not be perfectly focused at the same point as light entering at the center. That presents limits to performance in wide aperture and super wide-angle lenses.Tokina uses aspherical glass elements in many of its lenses. In addition to correcting spherical aberration, these lenses fully correct light quantity and distortion at the edge of the image and provide excellent results when used in combination with floating elements. Through technical cooperation with Hoya, Tokina has succeeded in producing high quality molded glass elements with a greater aspherical shape than any other lens so far. This technique is unparalleled in its technological sophistication and excellence.


● Standard Lenses
Marginal rays that cannot form an image
focus point
● Aspherical Lenses
Altered marginal rays that can form an image
focus point

SD (Super Low Dispersion) Glass

Lenses with the SD mark use Super-low Dispersion glass which minimizes the secondary spectrum caused by chromatic aberration. Basically, these lenses use FK01 and FK02 optical materials which gives them SD (APO) qualities. This provides excellent image quality in telephoto lenses of 200mm or more by correcting color aberration across the entire picture and bringing all colors into focus accurately at the film plane.



TECHNICAL SPECIFICATIONS

Lens	Mount	Optical Construction Elements / Groups	Diagonal Angle of View	Closest Focus Distance from Film Plane (in Macro Mode)	Magnification Ratio in Macro Mode	Aperture Range	Diaphragm Blades	Filter Size (mm)	Dimensions (mm) Diameter	Dimensions (mm) Length	Weight (gram)	Lens Hood
AT-X 70-200 F4 FX VCM-S 70-200mm f/4	N/D	19/14	34.45° – 12.42°	1.0m(39 in.)	1:3.57	f/4~f/32	9	67	82	167.5	980	BH-672
AT-X 16-28 PRO FX 16~28mm f/2.8	C, N/D	15/13	107.11° ~ 76.87°	0.28m(11 in.)	1:5.26	f/2.8~f/22	9	N/A	90	133.3	950	Built-in
AT-X 17-35 PRO FX 17~35mm f/4	C, N/D	13/12	103.96° ~ 64.74°	0.28m(11 in.)	1:4.82	f/4~f/22	9	82	89	94.5	600	BH-821
AT-X 116 PRO DX II 11~16mm f/2.8	C, N/D, S	13/11	104° ~ 82°	0.3m(11.8 in.)	1:11.6	f/2.8~f/22	9	77	84	89.2	550	BH-77B
AT-X 12-28 PRO DX 12-28mm f/4	C, N/D	13/11	99°~61°	0.3m(11.8 in.)	1:8	f/4~f/22	9	77	84	89.5	540	BH-777
AT-X 107 AF DX 10~17mm f/3.5~4.5	C, N/D	10/8	180° ~ 100°	0.14m(5.5 in.)	1:2.56	f/3.5~f/22	6	N/A	70	71.1	350	Built-in
AT-X 107 AF DX NH 10~17mm f/3.5~4.5	C, N/D	10/8	180° ~ 100°	0.14m(5.5 in.)	1:2.56	f/3.5~f/22	6	N/A	69.9	70.9	350	N/A
AT-X M100 AF PRO D 100mm f/2.8	C, N/D	9/8	24.30°	0.3m(11.8 in.)	1:1	f/2.8~f/32	9	55	73	95.1	540	BH-551
REFLEX 300mm F6.3 MF MACRO	Micro 4/3rds	7/3	4.8°	0.8m(31.5 in.)	1:2	f/6.3	N/A	55	66	66	298	BH-552

■ The external appearance and specifications shown in this catalog may be changed without any advance notice.

■ Auto Focus Lenses C: CANON AF N/D: NIKON AF-D S: SONY
■ 1g = 0.03527 oz ■ 10mm = 0.39370 inch ■ 1m = 3.28084 feet

Kenko Tokina
Kenko Tokina Co., Ltd.
5-68-10 Nakano, Nakano-ku, Tokyo 164-8616, Japan
www.tokinalens.com